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Total Number of Pages in This Submission

Application Number	10/816,197
Filing Date	March 31, 2004
First Named Inventor	DESILETS, CHARLES S.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	021356-000320US

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Firm or Individual name	Townsend and Townsend and Crew LLP	
	James M. Heslin	Reg. No. 29,541
Signature	<i>[Signature]</i>	
Date	6/11/04	

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On

6-11-04

TOWNSEND and TOWNSEND and CREW LLP,

By:

Edward Masinas

Edward Masinas

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re application of:

CHARLES S. DESILETS et al.

Application No.: 10/816,197

Filed: March 31, 2004

For: VORTEX TRANSDUCER

Examiner: Unassigned

Art Unit: Unassigned

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98**

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Sir:

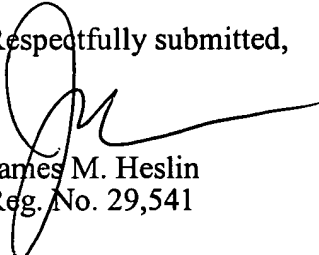
The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

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Respectfully submitted,



James M. Heslin
Reg. No. 29,541

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60236692 v1

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/816,197	
			Filing Date	March 31, 2004	
			First Named Inventor	DESILETS, CHARLES S.	
			Art Unit	Unassigned	
			Examiner Name	Unassigned	
Sheet	1	of	3	Attorney Docket Number	021356-000320US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	AA	US-2002/0128592	09/12/2002	Eshel	
	AB	US-2003/0083536	05/01/2003	Eshel et al.	
	AC	US-2004/0039312	02/26/2004	Hillstead et al.	
	AD	US-4,002,221	01/11/1977	Buchalter	
	AE	US-4,059,098	11/22/1977	Murdock	
	AF	US-4,211,949	07/08/1980	Briskin et al.	
	AG	US-4,291,578	09/29/1981	Hetz et al.	
	AH	US-4,326,418	04/27/1982	Pell, Jr.	
	AI	US-4,368,410	01/11/1983	Hance et al.	
	AJ	US-4,437,033	03/13/1984	Diepers	
	AK	US-4,459,854	07/17/1984	Richardson et al.	
	AL	US-4,501,557	02/26/1985	Tamura et al.	
	AM	US-4,556,066	12/03/1985	Semrow	
	AN	US-4,567,895	02/04/1986	Putzke	
	AO	US-4,593,699	06/10/1986	Poncy et al.	
	AP	US-4,865,042	09/12/1989	Umemura et al.	
	AQ	US-4,960,107	10/02/1990	Aida et al.	
	AR	US-5,143,063	09/01/1992	Fellner	
	AS	US-5,259,383	11/09/1993	Holstein et al.	
	AT	US-5,301,660	04/12/1994	Rattner	
	AU	US-5,352,301	10/04/1994	Panchanathan et al.	
	AV	US-5,382,286	01/17/1995	Fanning et al.	
	AW	US 5,419,327	05/30/1995	Rohwedder et al.	
	AX	US 5,434,208	07/18/1995	Batelaan et al.	
	AY	US 5,476,438	12/19/1995	Edrich et al.	
	AZ	US 5,477,736	12/26/1995	Lorraine	
	BA	US 5,505,206	04/09/1996	Walloch	
	BB	US 5,526,815	06/18/1996	Granz et al.	
	BC	US 5,568,810	10/29/1996	Hamers et al.	
	BD	US 5,623,928	04/29/1997	Wright et al.	
	BE	US 5,626,554	05/06/1997	Ryaby et al.	
	BF	US 5,669,150	09/23/1997	Guertin et al.	
	BG	US 5,676,159	10/14/1997	Navis	
	BH	US 5,738,098	04/14/1998	Brock-Fisher et al.	
	BI	US 5,738,635	04/14/1998	Chapelon et al.	
	BJ	US 5,755,753	05/26/1998	Knowlton	
	BK	US 5,769,790	06/23/1998	Watkins et al.	
	BL	US 5,820,623	10/13/1998	Ng	
	BM	US 5,871,446	02/16/1999	Wilk	
	BN	US 5,938,608	08/17/1999	Bieger et al.	
	BO	US 5,938,922	08/17/1999	Fulk, Jr. et al.	
	BP	US 6,039,689	03/11/2000	Lizzi	

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Sheet	2	of	3	Attorney Docket Number	021356-000320US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	BQ	US 6,039,694	03/21/2000	Larson et al.	
	BR	US 6,071,239	08/06/2000	Cribbs et al.	
	BS	US 6,085,749	07/11/2000	Wardle et al.	
	BT	US 6,113,558	09/05/2000	Rosenschein et al.	
	BU	US 6,142,748	11/07/2000	Harris et al.	
	BV	US 6,152,137	11/28/2000	Schwartz et al.	
	BW	US 6,217,515	04/17/2001	Yamakawa et al.	
	BX	US 6,233,476	05/15/2001	Strommer et al.	
	BY	US 6,261,249	07/17/2001	Talish et al.	
	BZ	US 6,264,605	07/24/2001	Scirica et al.	
	CA	US 6,302,848	10/16/2001	Larson et al.	
	CB	US 6,306,146	10/23/2001	Dinkler	
	CC	US 6,366,831	04/02/2002	Raab	
	CD	US 6,419,648	07/16/2002	Vitek et al.	
	CE	US 6,423,077	07/23/2002	Carol et al.	
	CF	US 6,488,639	12/03/2002	Ribault et al.	
	CG	US 6,506,171	01/14/2003	Vitek et al.	
	CH	US 6,554,826	04/29/2003	Deardorff	
	CI	US 6,561,389	05/13/2003	Earle	
	CJ	US 6,575,906	06/10/2003	Schembri, Jr. et al.	
	CK	US 6,607,498	08/19/2003	Eshel	
	CL	US 6,613,004	09/02/2003	Vitek et al.	
	CM	US 6,618,620	09/09/2003	Freundlich et al.	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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		Application Number	10/816,197		
		Filing Date	March 31, 2004		
		First Named Inventor	DESILETS, CHARLES S.		
		Art Unit	Unassigned		
		Examiner Name	Unassigned		
Sheet	3	of	3	Attorney Docket Number	021356-000320US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CO	AYME et al., Occurance of transient cavitation in pulsed swatooth ultrasonic fields <i>J. Acoust. Soc. Am.</i> (1988) 84(5):1598-1605.	
	CP	BILLARD et al., Effects of Physical Parameters on High Temperature Ultrasound Hyperthermia, <i>Ultrasound in Med. & Biol.</i> (1990) 16(4):409-420.	
	CQ	CAIN et al., Concentric-Ring and Sector-Vortex Phased-Array Applicators for Ultrasound Hyperthermia, <i>IEEE Transactions on Microwave Theory and Techniques</i> , (1986) MTT-34(5):542-551.	
	CR	CHEN et al., Mechanisms of Lesion Formation in High Intensity Focused Ultrasound Therapy, <i>2002 IEEE Ultrasonics Symposium</i> , (2002) pp. 1443-1446.	
	CS	CLARKE et al., Physical and chemical aspects of ultrasonic disruption of cells <i>J. Acoust. Soc. Am.</i> (1970) 47(2):649-653.	
	CT	FJIELD et al., Design and Experimental Verification of Thin Acoustic Lenses for the Coagulation of Large Tissue Volumes, <i>Phys. Med. Biol.</i> (1977) 42:2341-2354.	
	CU	FJIELD et al., Experimental verification of the sectored annular phased array for MRI guided ultrasound surgery <i>IEEE Ultrasonics Symposium</i> (1996) pp. 1273-1276.	
	CV	FJIELD et al., The Combined Concentric-Ring and Sector-Vortex Phased Array for MRI Guided Ultrasound Surgery, <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> (1997) 44(5):1157-1167.	
	CW	FJIELD et al., In Vivo Verification of the Acoustic Model Used to Predict Temperature Elevations for MRI Guided Ultrasound Surgery, <i>1998 IEEE Ultrasonics Symposium</i> , (1998) pp. 1415-1418.	
	CX	FLYNN et al., A mechanism for the generation of cavitation maxima by pulsed ultrasound <i>J. Acoust. Soc. Am.</i> (1984) 76(2):505-512.	
	CY	FRY, Precision High Intensity Focusing Ultrasonic Machines for Surgery, <i>From the Biophysical Research Laboratory, College of Engineering, University of Illinois, Urbana, Illinois</i> , (1958) pp. 152-156.	
	CZ	FRY et al., Threshold ultrasonic dosages for structural changes in the mammalian brain <i>J. Acoust. Soc. Am.</i> (1970) 48(6):1413-1417.	
	DA	ter HAAR, Ultrasound Focal Beam Surgery, <i>Ultrasound in Med. & Biol.</i> , (1995) 21(9):1089-1100.	
	DB	HAND, Ultrasound Hyperthermia and the Prediction of Heating, <i>Ultrasound in Medicine</i> , Duck et al., Eds., Chapter 8, Institute of Physics Publishing, Bristol and Philadelphia, (1998) pp. 151-157.	
	DC	KINNEY, Body contouring with external ultrasound <i>Plastic & Reconstruct. Surg.</i> (1999) 103:728-729.	
	DD	Padmaker, Thresholds and mechanisms of ultrasonic damage to 'organized' animal tissues <i>Symposium on Biological Effects and Characterizations of Ultrasound Sources</i> (1977) Hazzard et al., Eds., pp. 224-239.	
	DE	UMEMURA, The Sector-Vortex Phased Array: Acoustic Field Synthesis for Hyperthermia, <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , (1989) 36(2):249-257.	

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² Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.